

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE072215\  
 Data File : BE090204.D  
 Acq On : 21 Jul 2015 17:55  
 Operator : TP/IZ  
 Sample : SSTD0.219  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTD0.219

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 7/22/2015 3:02:23 PM

Quant Time: Jul 22 03:12:28 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE072215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 22 03:03:48 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.61  | 152  | 865      | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.37 | 136  | 4089     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.21 | 164  | 2268     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 16.94 | 188  | 6084     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.12 | 240  | 4652     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.43 | 264  | 2798     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 11.96 | 152  | 1250     | 0.19 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 18.97 | 212  | 3402     | 0.19 | ng/ul | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.41 | 128  | 2143     | 0.20 | ng/ul  | 95     |
| 5) 2-Methylnaphthalene     | 12.03 | 142  | 1433     | 0.20 | ng/ul  | 99     |
| 7) Acenaphthylene          | 13.93 | 152  | 9466     | 0.20 | ng/ul  | 97     |
| 8) Acenaphthene            | 14.27 | 153  | 6928     | 0.20 | ng/ul  | 99     |
| 9) Fluorene                | 15.26 | 166  | 2017     | 0.20 | ng/ul  | 97     |
| 11) Pentachlorophenol      | 16.61 | 266  | 55       | 0.09 | ng/ul# | 81     |
| 12) Phenanthrene           | 16.99 | 178  | 14190m   | 0.20 | ng/ul  |        |
| 13) Anthracene             | 17.07 | 178  | 13352    | 0.20 | ng/ul  | 98     |
| 15) Fluoranthene           | 19.00 | 202  | 15473    | 0.19 | ng/ul  | 97     |
| 17) Pyrene                 | 19.36 | 202  | 15878    | 0.26 | ng/ul  | 99     |
| 18) Benzo(a)anthracene     | 21.10 | 228  | 1264     | 0.11 | ng/ul  | 96     |
| 19) Chrysene               | 21.15 | 228  | 3950m    | 0.26 | ng/ul  |        |
| 21) Benzo(b)fluoranthene   | 22.72 | 252  | 667      | 0.10 | ng/ul  | 88     |
| 22) Benzo(k)fluoranthene   | 22.77 | 252  | 1700m    | 0.16 | ng/ul  |        |
| 23) Benzo(a)pyrene         | 23.32 | 252  | 960      | 0.13 | ng/ul# | 84     |
| 24) Indeno(1,2,3-cd)pyrene | 25.81 | 276  | 2638     | 0.08 | ng/ul# | 92     |
| 25) Dibenzo(a,h)anthracene | 25.84 | 278  | 435      | 0.07 | ng/ul# | 83     |
| 26) Benzo(g,h,i)perylene   | 26.55 | 276  | 4454     | 0.14 | ng/ul# | 86     |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

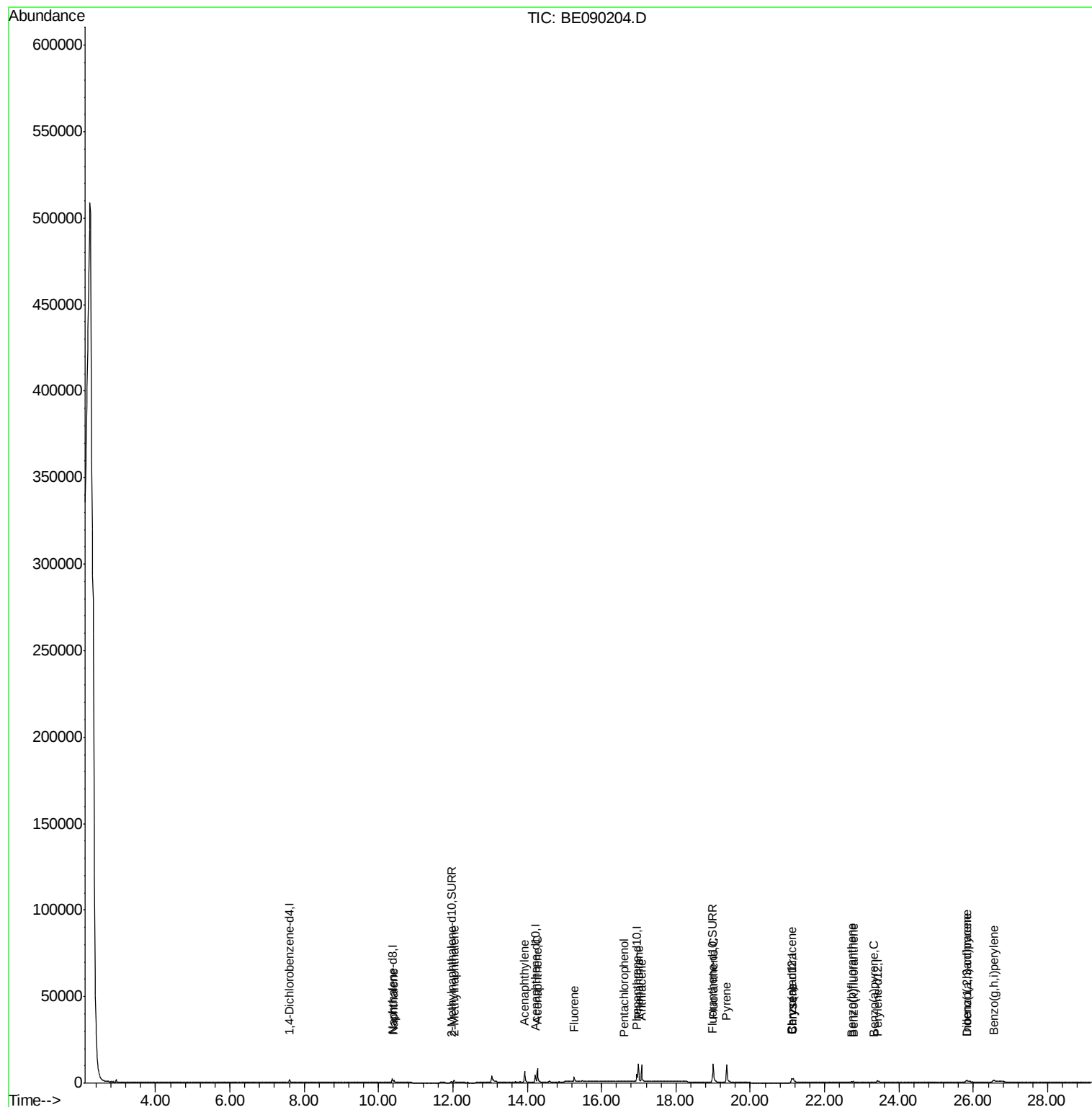
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE072215\  
Data File : BE090204.D  
Acq On : 21 Jul 2015 17:55  
Operator : TP/IZ  
Sample : SSTD0.219  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

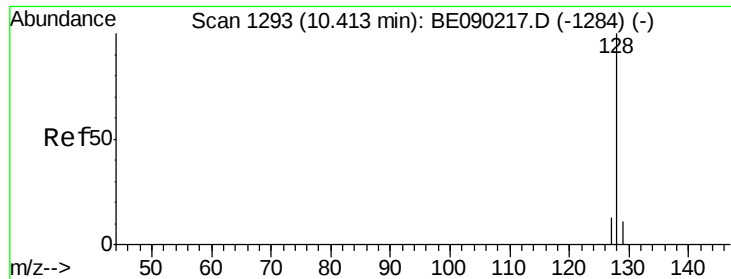
Instrument :  
BNA\_E  
ClientSampleId :  
SSTD0.219

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Quant Time: Jul 22 03:12:28 2015  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE072215.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 22 03:03:48 2015  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.20 ng/ul

RT: 10.41 min Scan# 1293

Delta R.T. -0.00 min

Lab File: BE090204.D

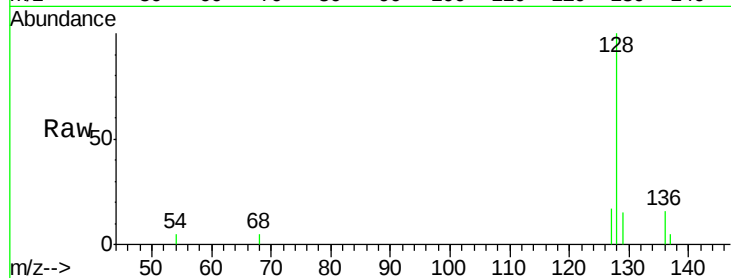
Acq: 21 Jul 2015 17:55

Instrument :

BNA\_E

ClientSampleId :

SSTD0.219



Tgt Ion:128 Resp: 2143

Ion Ratio Lower Upper

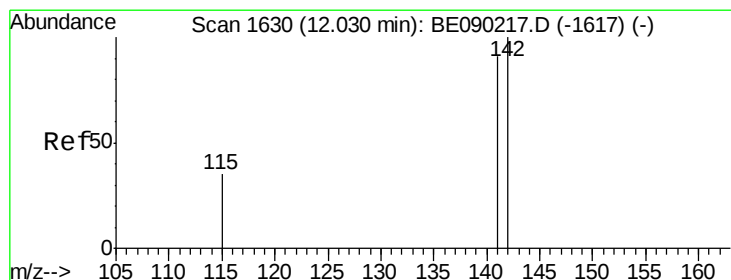
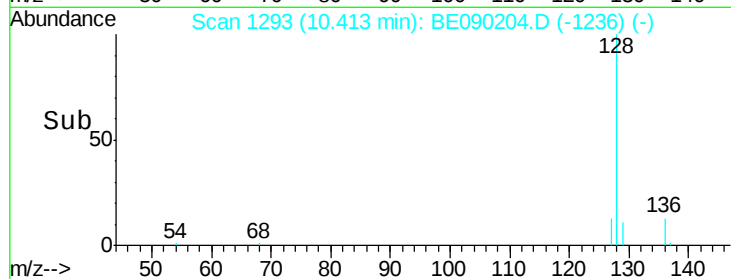
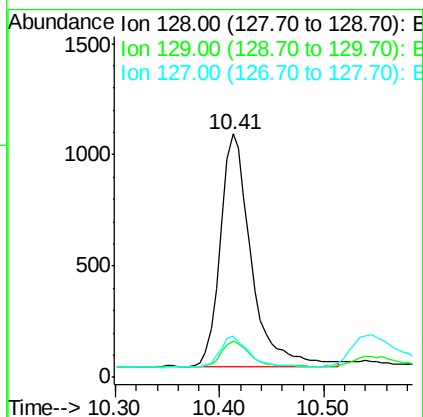
128 100

129 14.8 10.2 15.2

127 16.8 11.8 17.6

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#5

2-Methylnaphthalene

Concen: 0.20 ng/ul

RT: 12.03 min Scan# 1630

Delta R.T. 0.00 min

Lab File: BE090204.D

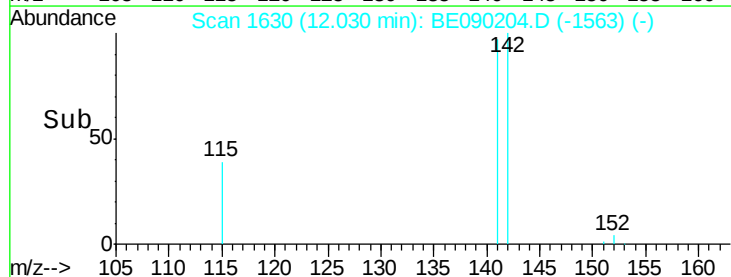
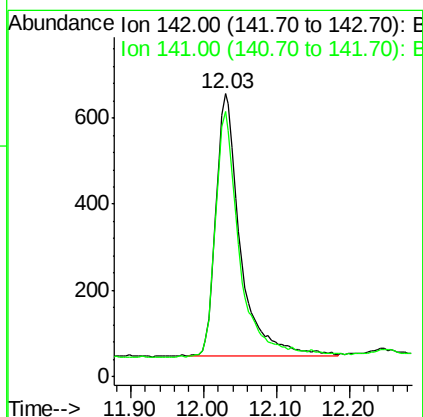
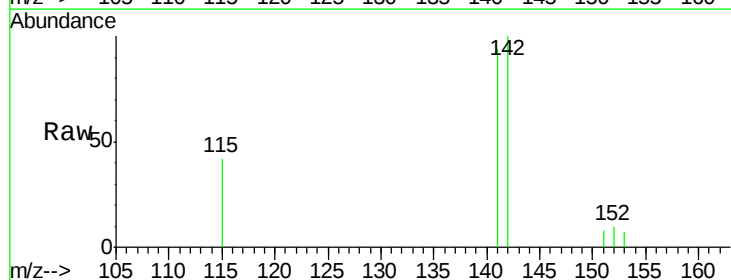
Acq: 21 Jul 2015 17:55

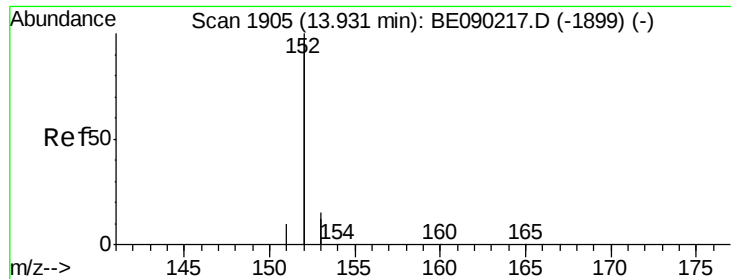
Tgt Ion:142 Resp: 1433

Ion Ratio Lower Upper

142 100

141 90.6 73.0 109.6





#7

Acenaphthylene

Concen: 0.20 ng/ul

RT: 13.93 min Scan# 1905

Delta R.T. 0.00 min

Lab File: BE090204.D

Acq: 21 Jul 2015 17:55

Instrument :

BNA\_E

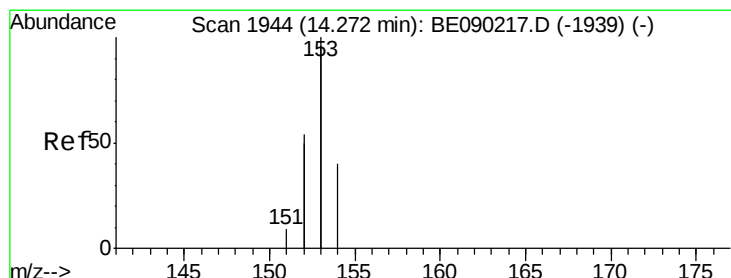
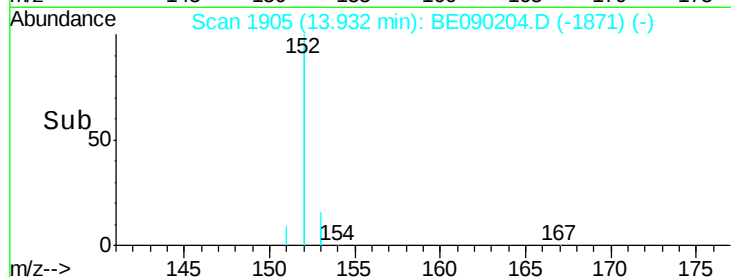
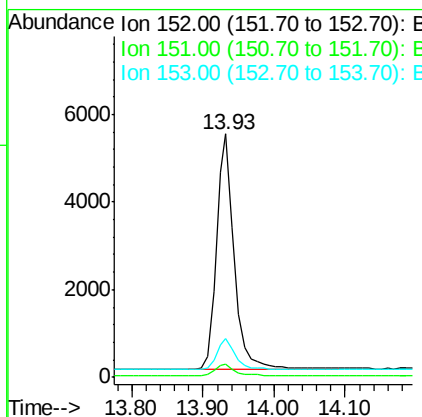
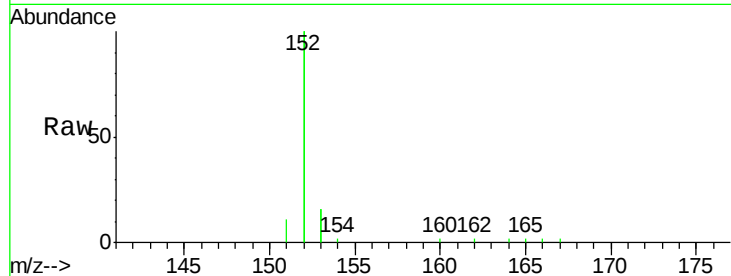
ClientSampleId :

SSTD0.219

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 9466 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 5.5   | 4.2   | 6.4  |
| 153       | 16.0  | 11.5  | 17.3 |

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#8

Acenaphthene

Concen: 0.20 ng/ul

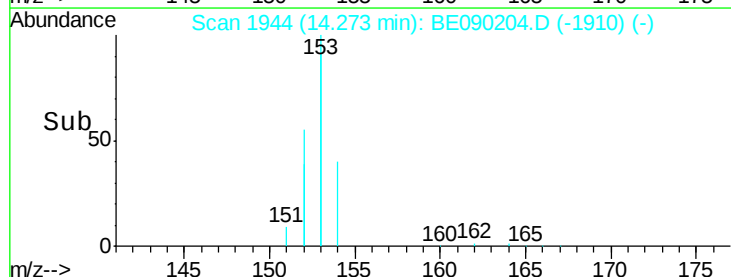
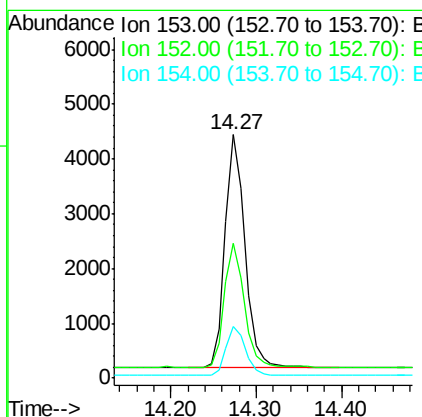
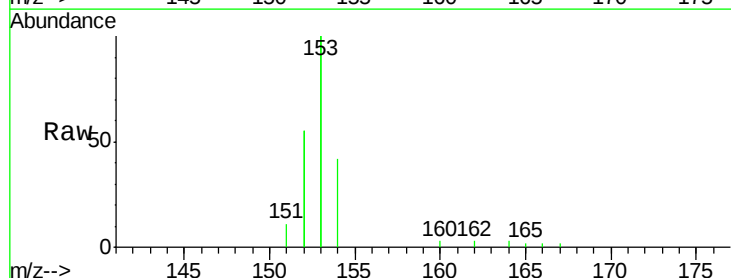
RT: 14.27 min Scan# 1944

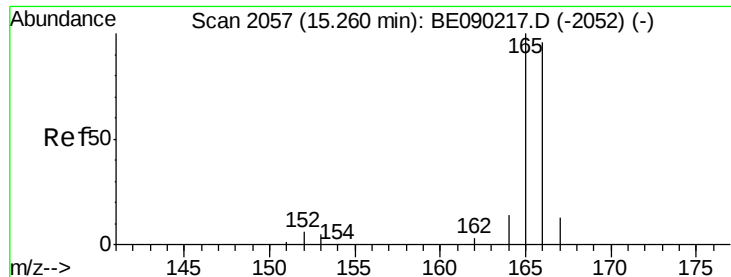
Delta R.T. 0.00 min

Lab File: BE090204.D

Acq: 21 Jul 2015 17:55

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 153   | Resp: | 6928 |
| Ion Ratio | Lower | Upper |      |
| 153       | 100   |       |      |
| 152       | 55.3  | 45.0  | 67.4 |
| 154       | 21.1  | 16.8  | 25.2 |





#9

Fluorene

Concen: 0.20 ng/ul

RT: 15.26 min Scan# 2057

Delta R.T. 0.00 min

Lab File: BE090204.D

Acq: 21 Jul 2015 17:55

Instrument :

BNA\_E

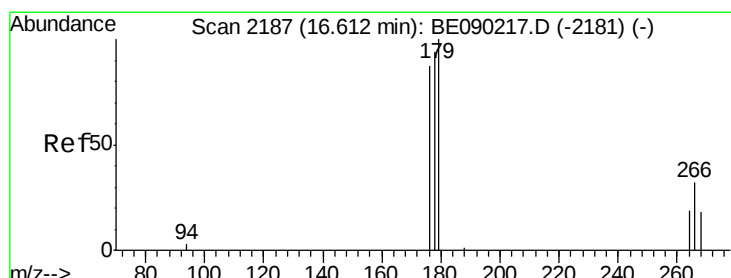
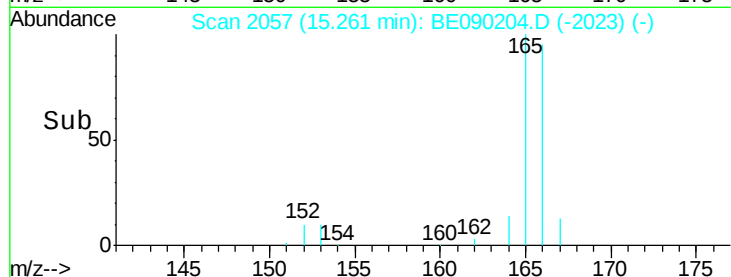
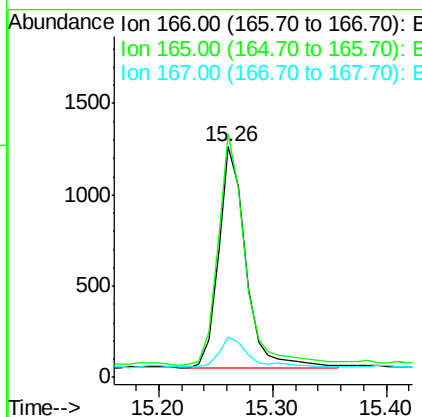
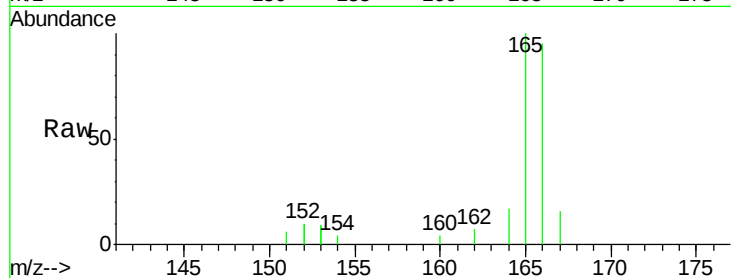
ClientSampleId :

SSTD0.219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 105.6 | 81.9  | 122.9 |
| 167     | 17.3  | 12.2  | 18.2  |

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#11

Pentachlorophenol

Concen: 0.09 ng/ul

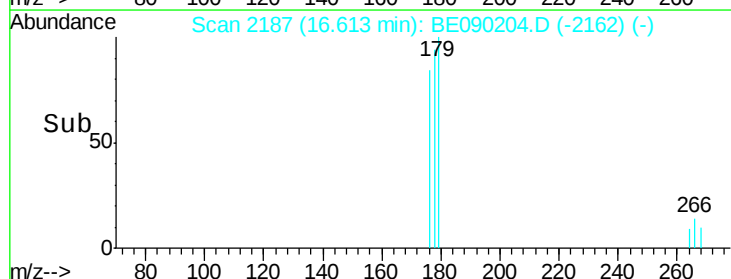
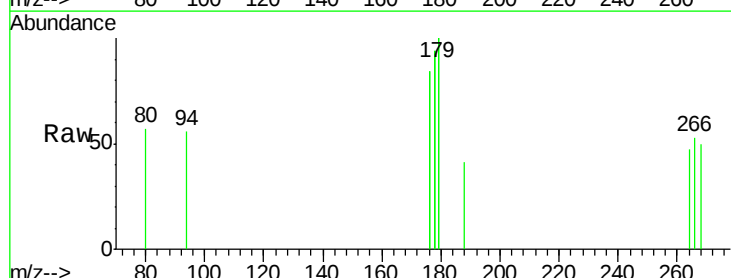
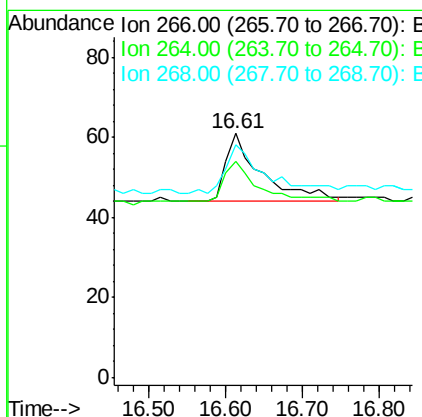
RT: 16.61 min Scan# 2187

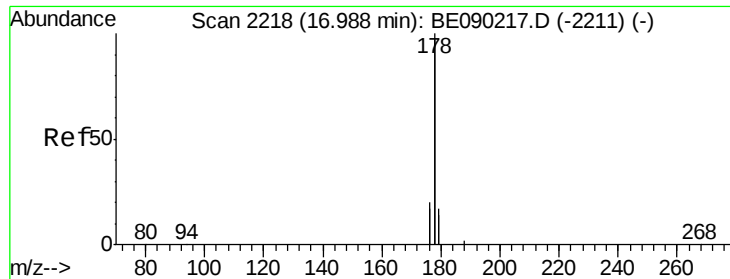
Delta R.T. -0.00 min

Lab File: BE090204.D

Acq: 21 Jul 2015 17:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 74.5  | 51.6  | 77.4  |
| 268     | 70.9  | 41.3  | 61.9  |





#12

Phenanthrene

Concen: 0.20 ng/ul m

RT: 16.99 min Scan# 2218

Delta R.T. 0.01 min

Lab File: BE090204.D

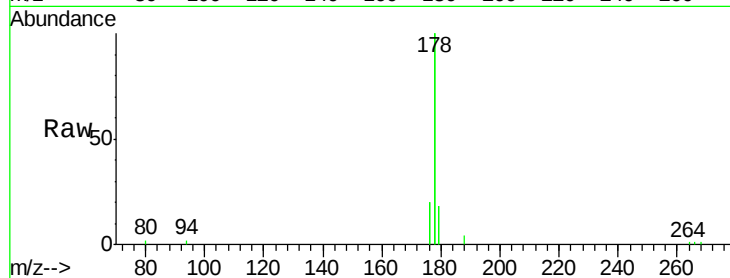
Acq: 21 Jul 2015 17:55

Instrument :

BNA\_E

ClientSampleId :

SSTD0.219



Tgt Ion:178 Resp: 14190

Ion Ratio Lower Upper

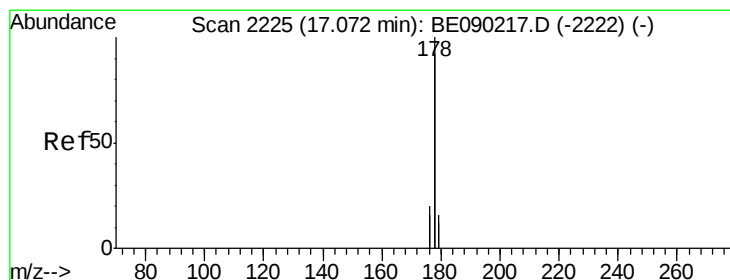
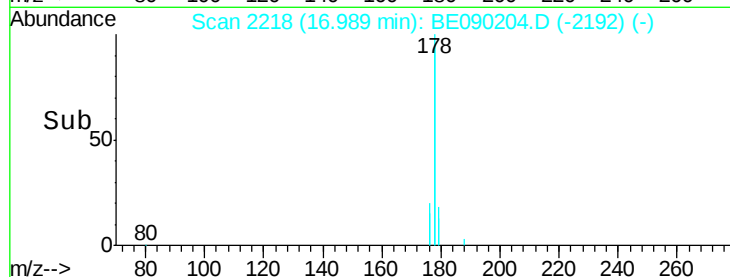
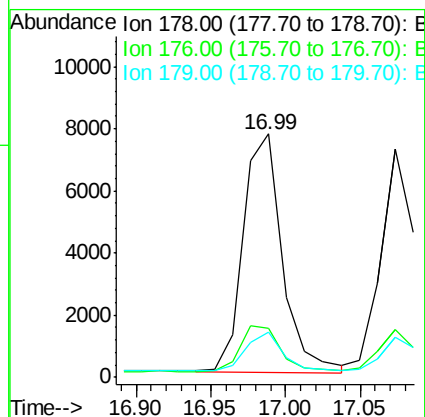
178 100

176 20.1 17.6 26.4

179 18.4 12.2 18.4#

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#13

Anthracene

Concen: 0.20 ng/ul

RT: 17.07 min Scan# 2225

Delta R.T. -0.00 min

Lab File: BE090204.D

Acq: 21 Jul 2015 17:55

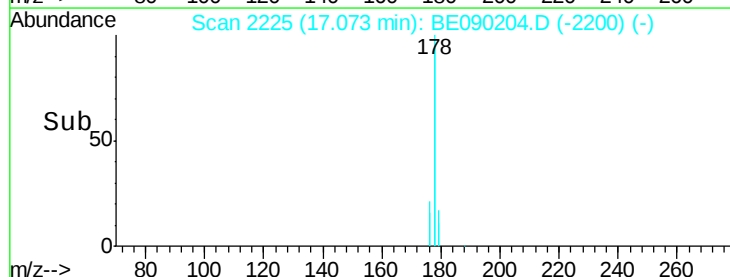
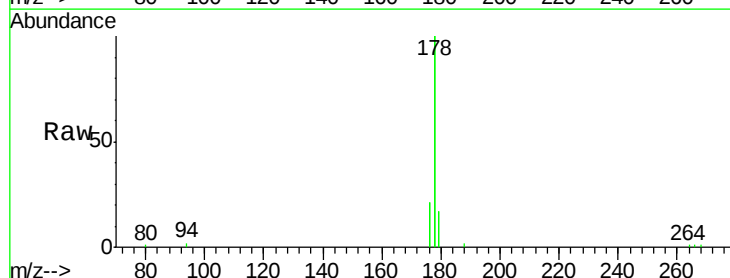
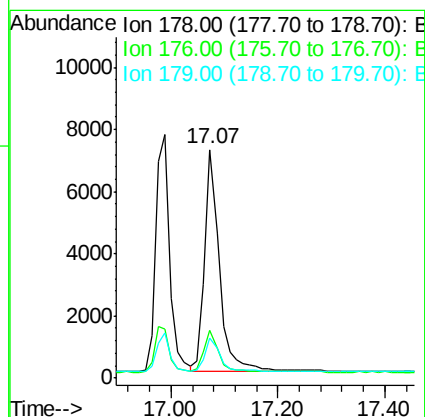
Tgt Ion:178 Resp: 13352

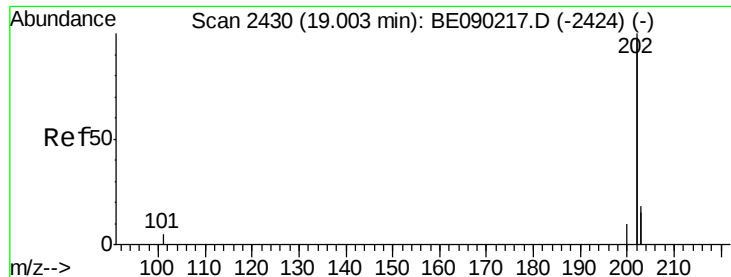
Ion Ratio Lower Upper

178 100

176 21.1 15.9 23.9

179 17.3 13.3 19.9





#15

Fluoranthene

Concen: 0.19 ng/ul

RT: 19.00 min Scan# 2430

Delta R.T. 0.01 min

Lab File: BE090204.D

Acq: 21 Jul 2015 17:55

Instrument :

BNA\_E

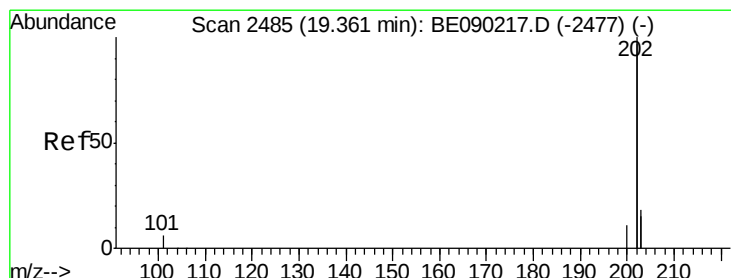
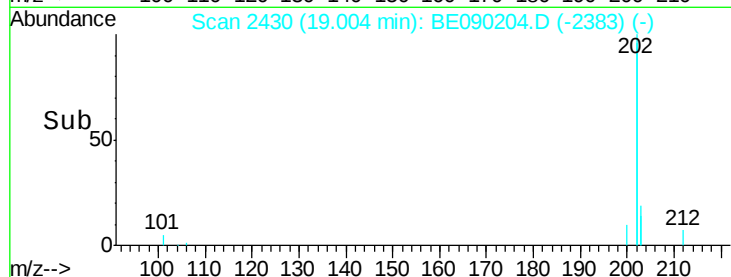
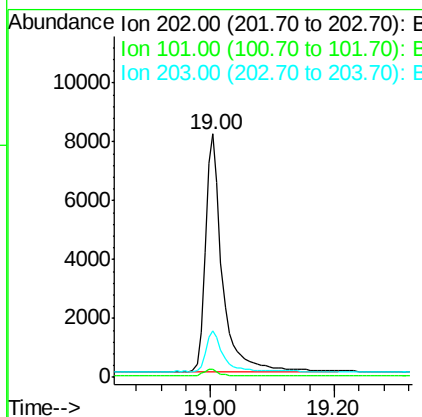
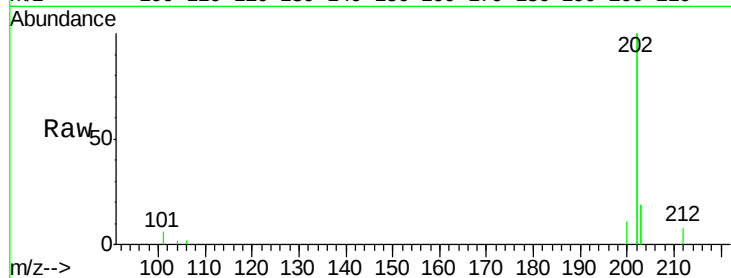
ClientSampleId :

SSTD0.219

|     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Tgt | Ion   | 202   | Resp: | 15473 |
| Ion | Ratio | Lower | Upper |       |
| 202 | 100   |       |       |       |
| 101 | 3.1   | 0.0   | 23.0  |       |
| 203 | 19.1  | 0.0   | 37.8  |       |

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#17

Pyrene

Concen: 0.26 ng/ul

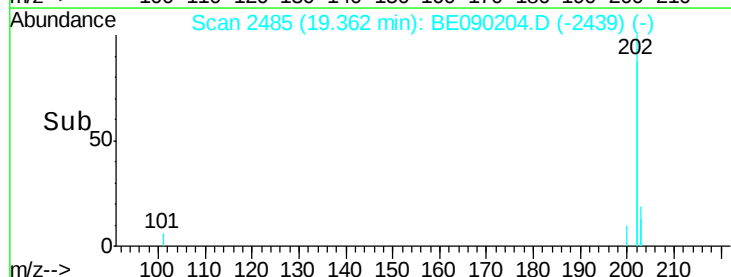
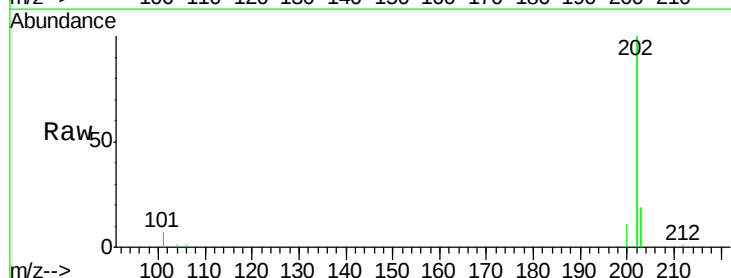
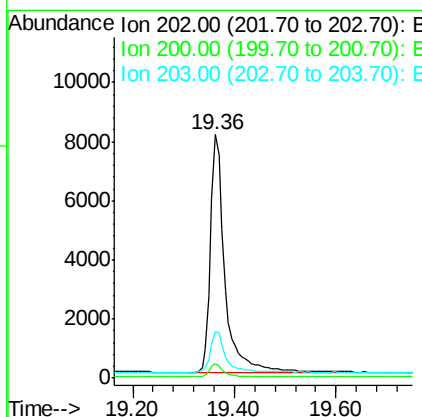
RT: 19.36 min Scan# 2485

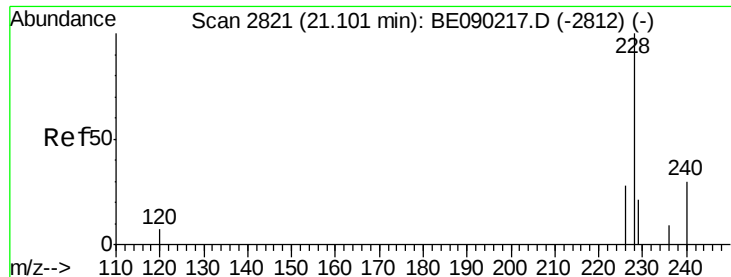
Delta R.T. -0.00 min

Lab File: BE090204.D

Acq: 21 Jul 2015 17:55

|     |       |       |       |       |
|-----|-------|-------|-------|-------|
| Tgt | Ion   | 202   | Resp: | 15878 |
| Ion | Ratio | Lower | Upper |       |
| 202 | 100   |       |       |       |
| 200 | 5.7   | 4.4   | 6.6   |       |
| 203 | 19.0  | 14.6  | 22.0  |       |





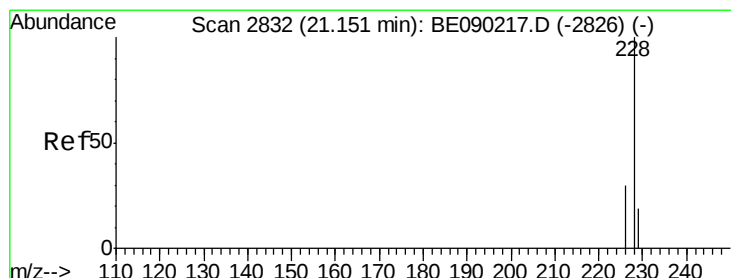
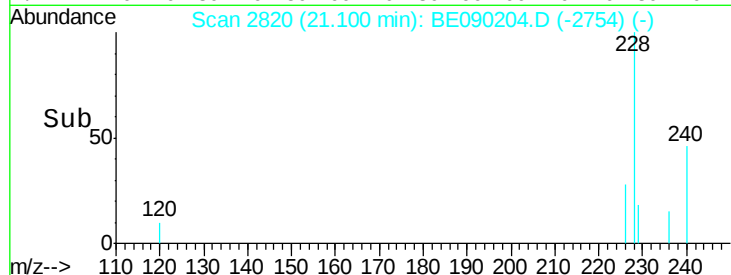
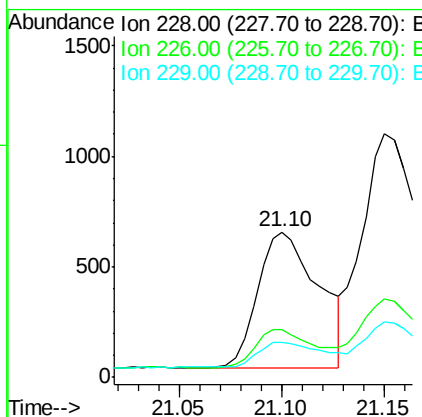
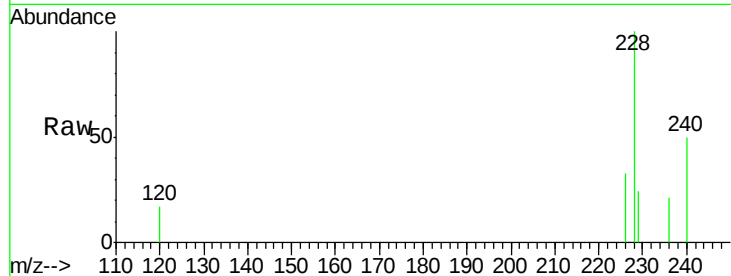
#18  
Benzo(a)anthracene  
Concen: 0.11 ng/ul  
RT: 21.10 min Scan# 2820  
Delta R.T. -0.00 min  
Lab File: BE090204.D  
Acq: 21 Jul 2015 17:55

Instrument :  
BNA\_E  
ClientSampleId :  
SSTD0.219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.8  | 24.1  | 36.1  |
| 229     | 24.1  | 17.9  | 26.9  |

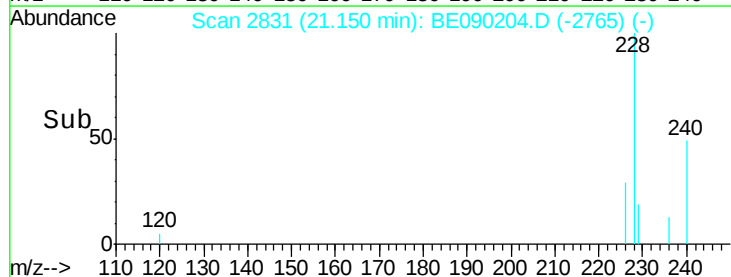
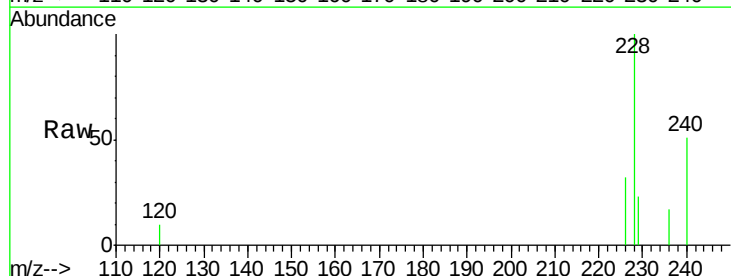
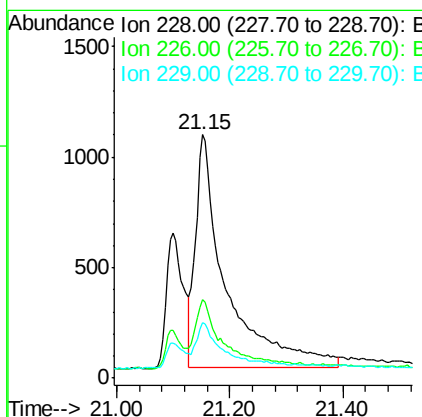
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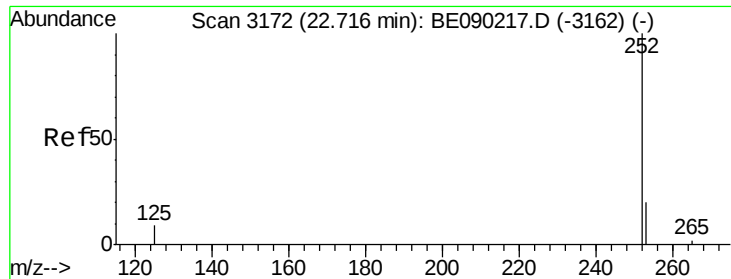
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#19  
Chrysene  
Concen: 0.26 ng/ul m  
RT: 21.15 min Scan# 2831  
Delta R.T. -0.00 min  
Lab File: BE090204.D  
Acq: 21 Jul 2015 17:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.3  | 24.6  | 36.8  |
| 229     | 22.6  | 17.4  | 26.2  |





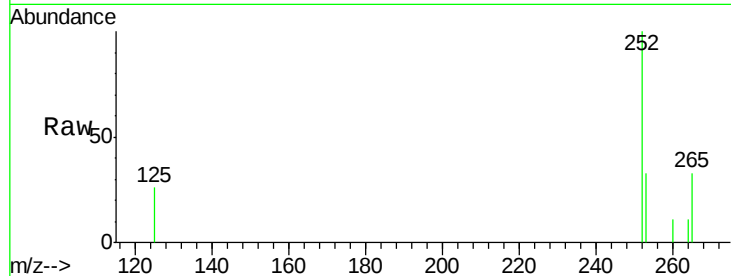
#21  
Benzo(b)fluoranthene  
Concen: 0.10 ng/ul  
RT: 22.72 min Scan# 3172  
Delta R.T. -0.00 min  
Lab File: BE090204.D  
Acq: 21 Jul 2015 17:55

Instrument :  
BNA\_E  
ClientSampleId :  
SSTD0.219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 33.1  | 0.0   | 56.8  |
| 125     | 25.9  | 0.0   | 37.0  |

Manual Integrations  
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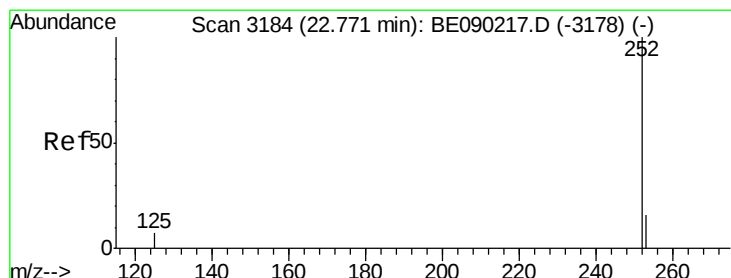
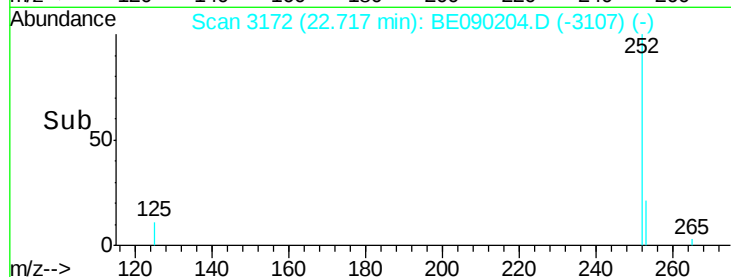
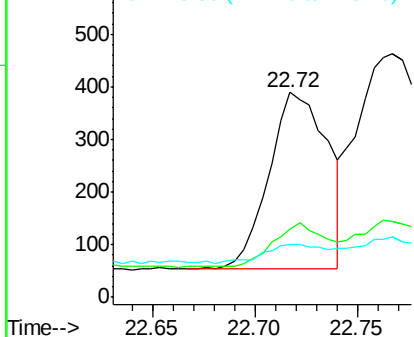


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#22  
Benzo(k)fluoranthene  
Concen: 0.16 ng/ul m  
RT: 22.77 min Scan# 3183  
Delta R.T. 0.00 min  
Lab File: BE090204.D  
Acq: 21 Jul 2015 17:55

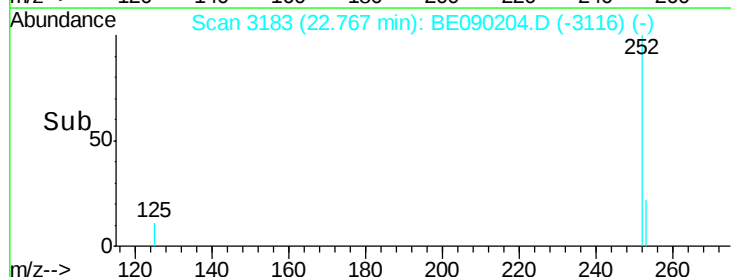
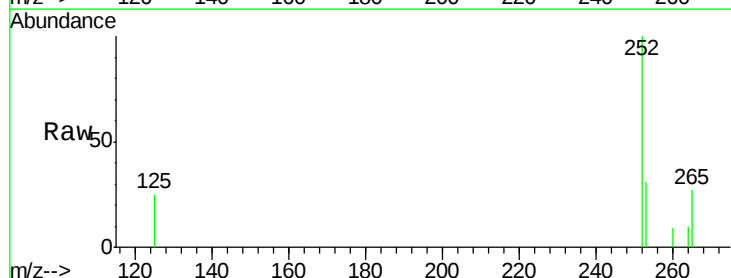
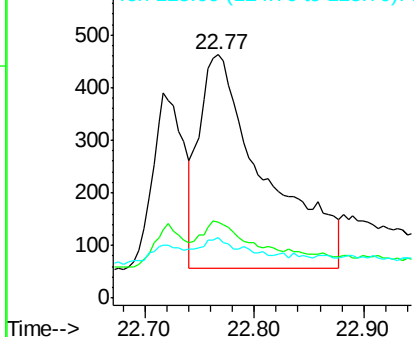
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 31.3  | 19.5  | 29.3# |
| 125     | 25.1  | 11.9  | 17.9# |

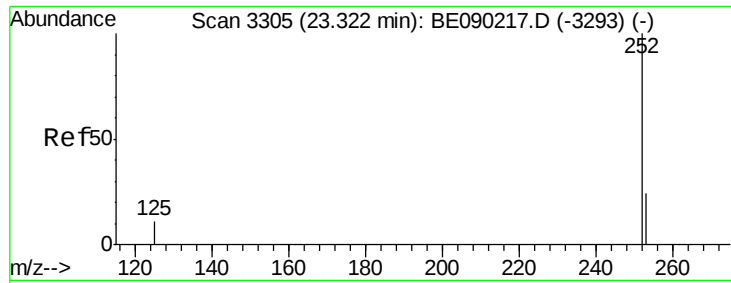
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





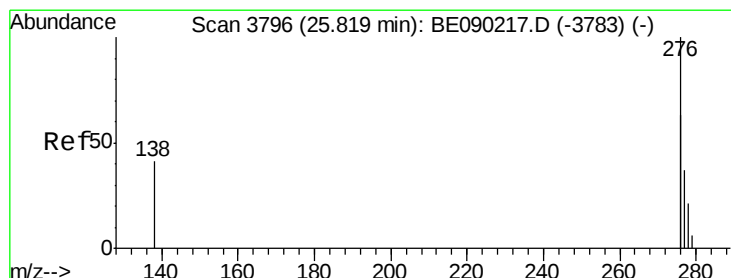
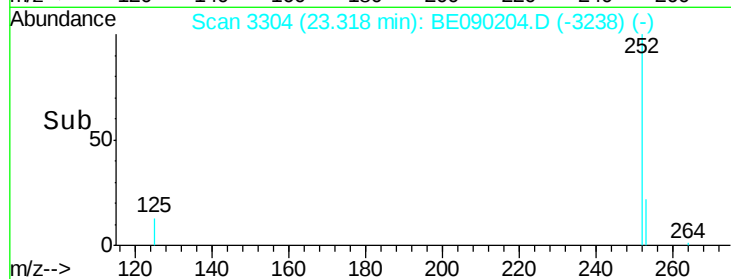
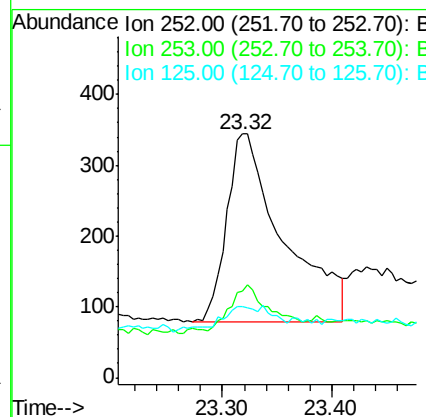
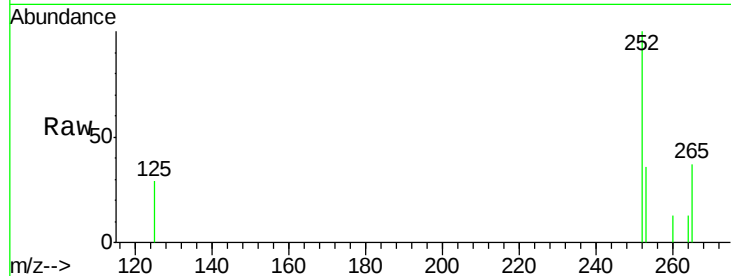
#23  
Benzo(a)pyrene  
Concen: 0.13 ng/ul  
RT: 23.32 min Scan# 3304  
Delta R.T. -0.00 min  
Lab File: BE090204.D  
Acq: 21 Jul 2015 17:55

Instrument :  
BNA\_E  
ClientSampleId :  
SSTD0.219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 35.8  | 23.7  | 35.5# |
| 125     | 29.4  | 15.4  | 23.2# |

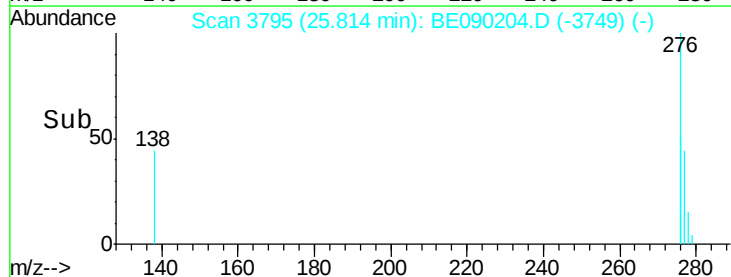
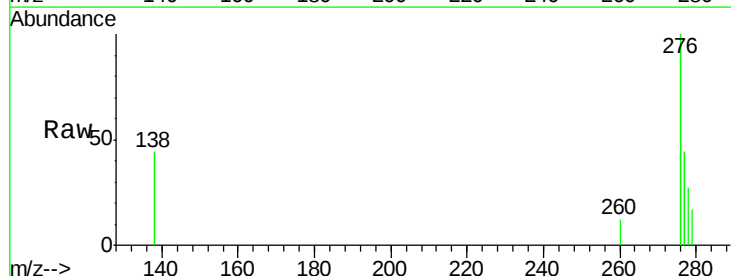
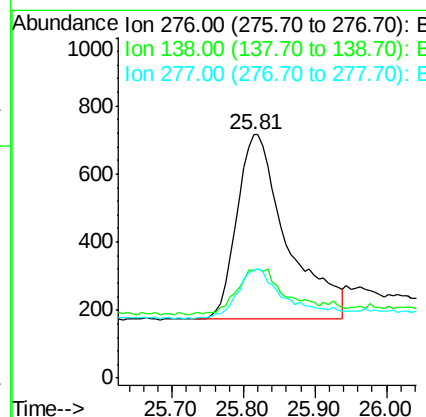
Manual Integrations  
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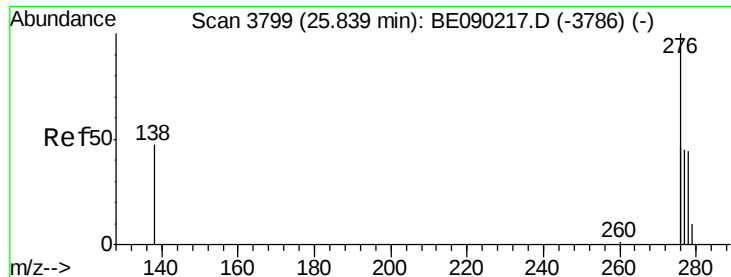
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#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.08 ng/ul  
RT: 25.81 min Scan# 3795  
Delta R.T. -0.00 min  
Lab File: BE090204.D  
Acq: 21 Jul 2015 17:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.3  | 16.9  | 25.3  |
| 277     | 26.5  | 17.0  | 25.4# |





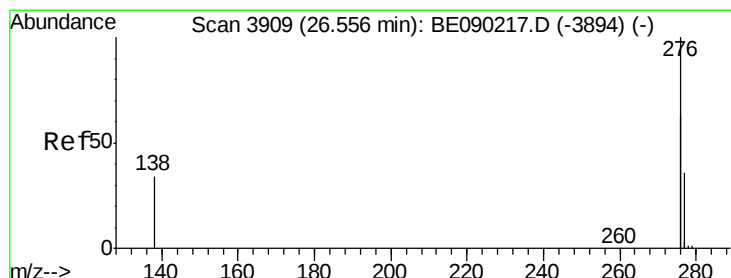
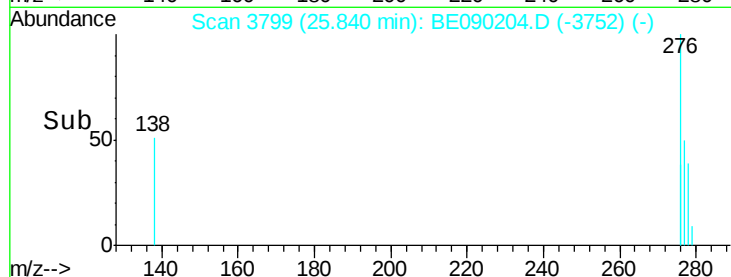
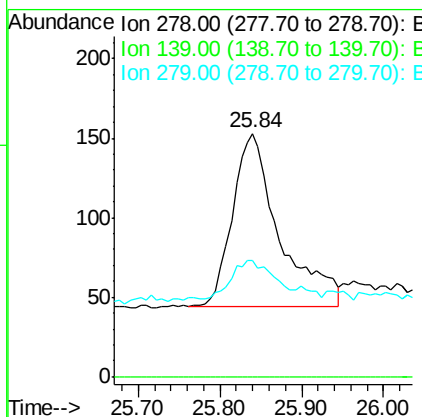
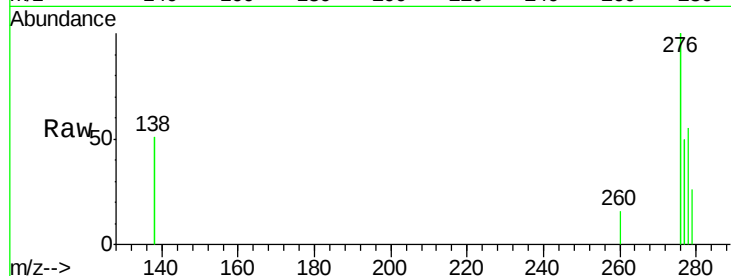
#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.07 ng/ul  
 RT: 25.84 min Scan# 3799  
 Delta R.T. 0.01 min  
 Lab File: BE090204.D  
 Acq: 21 Jul 2015 17:55

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SST00.219

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 0.0   | 0.0   |
| 279     | 47.7  | 30.1  | 45.1# |

Manual Integrations  
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#26  
 Benzo(g,h,i)perylene  
 Concen: 0.14 ng/ul  
 RT: 26.55 min Scan# 3908  
 Delta R.T. -0.01 min  
 Lab File: BE090204.D  
 Acq: 21 Jul 2015 17:55

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 38.7  | 24.6  | 36.8# |
| 138     | 36.3  | 23.5  | 35.3# |

